

LATITUDE: 29D41'33.27"N LONGITUDE: 98D6;27.51"W

DESIGN TEAM

PRIME CONSULTANT

Shane Torno Freese and Nichols F-2144 361.561.6500

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1. ASTM F1487-17, STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATIONS FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE 2. ASTM F2223-15, STANDARD GUIDE FOR ASTM STANDARDS ON PLAYGROUND SURFACING

A. INTERNATIONAL CODE COUNCIL ADOPTIONS*

1. BUILDING CODE

2. STRUCTURAL CODE

3. LIFE SAFETY CODE

1. WATER SUPPLY

3. ON-SITE SEWAGE

E. ACCESSIBILITY CODES

2. LANDSCAPE IRRIGATION

C. ENERGY

1. ENERGY*

SCOPE OF WORK

1. U.S. DEPT. OF JUSTICE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

2. ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES: OUTDOOR DEVELOPED AREAS 2015

REPLACE EXISTING RAMP WITH NEW INSET BOAT RAMP. IMPROVE LAUNCHING, DOCKING, AND ACCESSIBILITY BY PROVIDING A COURTESY

PROJECT

LAKE DUNLAP

I-35 BOAT RAMP REPLACEMENT

INDEX OF DRAWINGS

OVERALL SITE PLAN AND EROSION CONTROL

QUANTITIES, LEGEND, & NOTES

EXISTING CONDITIONS PLAN

BOAT RAMP MODEL VIEWS

STAKING AND GRADING PLAN

STRUCTURAL GENERAL NOTES

BOAT RAMP FOUNDATION PLAN

BOAT RAMP SECTIONS

STRUCTURAL DETAILS I

BUILDING CODE SUMMARY

INTERNATIONAL BUILDING CODE 202:

INTERNATIONAL RESIDENTIAL CODE 2021 INTERNATIONAL EXISTING BUILDINGS CODE **2021** * International Fire Code omitted in lieu of TPWD's implementation of National Fire Protection Association codes.

NATIONAL ELECTRIC CODE, NFPA-70 2023

INTERNATIONAL ENERGY CONSERVATION CODE 2021

TEXAS ADMIN CODE - TITLE 30, PART 1, CHAPTER 290 TEXAS ADMIN CODE - TITLE 30, PART 1, CHAPTER 344

TEXAS ADMIN CODE - TITLE 30, PART 1, CHAPTER 217

*Energy Standard for State-funded Buildings, ASHRAE/IESNA Standard 90.1 (2013) omitted in lieu of INTERNATIONAL ENERGY CONSERVATION

DEMOLITION PLAN

CIVIL DETAILS I

DATE: 03/28/2025

PROJECT NO: 1111298

SHEET NO. DESCRIPTION

COVER

FNI PROJECT NO. TPW24561

TDLR PROJECT NO. TABS2025013780



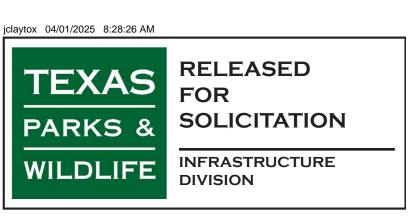
TEXAS PARKS AND WILDLIFE

INFRASTRUCTURE DIVISION

4200 SMITH SCHOOL ROAD - AUSTIN, TEXAS 78744-3292







GENERAL:

- 1. OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS FURNISHED TO HIM IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.
- 2. THE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE AND WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE INCLUDING GENERAL TOPOGRAPHIC SURVEY. THE ACTUAL LOCATION OF UTILITIES MAY VARY FROM THAT SHOWN AND THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THEIR LOCATIONS, GRADES, AND DIMENSIONS PRIOR TO STARTING ANY WORK THAT COULD DISTURB THEM. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITIES 48 HOURS PRIOR TO CONSTRUCTION.
- 3. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
- 4. ALL DIMENSIONS SHOWN ARE TO FEATURE LINES UNLESS OTHERWISE SPECIFIED.
- ALL NORTHING AND EASTING COORDINATE POINTS ARE TO BE THE CENTERPOINT, CORNER INTERSECTION, CENTER OF POLE, FENCE POST OR SIGN AND ALONG THE DESIGNATED CENTERLINES.
- 6. PRIOR TO BEGINNING CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES FROM ALL CONTRACTORS, THE ENGINEERS AND THE TEXAS PARKS AND WILDLIFE DEPARTMENT. THE CONTRACTOR SHALL VIDEO RECORD THE ENTIRE PROJECT SITE TO DOCUMENT EXISTING CONDITIONS AND SUBMIT TO THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING AND MUST OBTAIN PRIOR TO CONSTRUCTION, ALL LEGALLY REQUIRED PERMITS AND LICENSES, PAY ALL CHARGES AND FEES, GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK, AND ARRANGE FOR ALL INSPECTIONS, PER THE CONTRACT DOCUMENTS.
- 8. PRIOR TO BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL MEET WITH TPWD AND TXDOT TO COORDINATE A LOCATION AND LIMITS OF LAYDOWN AREA.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ACCESS TO THE CONSTRUCTION SITE, SUBJECT TO APPROVAL FROM THE TEXAS PARKS AND WILDLIFE DEPARTMENT.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WORK AREA IN A SAFE CONDITION EXCLUDING VISITORS FROM UNSAFE AREAS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ACCESS TO THE CONSTRUCTION SITE AND WORK AREAS DURING NON-WORKING HOURS.
- 12. CONTRACTOR MUST EXERCISE CAUTION WORKING AROUND EXISTING BRIDGE COLUMNS, FOOTINGS, AND OVERHEAD BRIDGE STRUCTURES. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY NOT STORE ANY FLAMMABLE OR EXPLOSIVE MATERIALS IN THE AREAS BENEATH THE BRIDGES.
- 13. ANY EXISTING PAVEMENT DAMAGED OR REMOVED WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST BEFORE ACCEPTANCE OF THE PROJECT.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SIDEWALKS AND ROADS ADJACENT TO THE PROJECT SITE FREE FROM MUD AND DEBRIS FROM CONSTRUCTION ACTIVITIES.
- 15. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART VI IN PARTICULAR. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING BARRICADES IN PLACE DURING CONSTRUCTION.
- 16. WHERE EXISTING ASPHALT AND CONCRETE ARE TO BE CUT, THESE CUTS SHALL BE VERTICAL AND MADE WITH A SAW. CONTRACTOR WILL BE RESPONSIBLE FOR REPAVING AREAS DISTURBED BY CONSTRUCTION.
- 17. TOPSOIL AND SEEDING SHALL BE PLACED ON ALL DISTURBED AREAS. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7, AND SHALL BE FREE OF STONES LARGER THAN ONE INCH, DEBRIS, AND EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.

EROSION CONTROL NOTES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH TCEQ/EPA REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING AND GAINING ANY REQUIRED AUTHORIZATION OR PERMIT FOR THE SWPPP FOR THIS PROJECT. A COPY OF AN APPROVED SWPPP SHALL BE GIVEN TO THE OWNER PRIOR TO BEGINNING WORK.
- 2. THE CONTRACTOR SHALL NOT ALLOW SEDIMENT TO LEAVE THE WORK AREA OR ENTER ANY ADJOINING CHANNELS OR DITCHES. ADDITIONAL MEASURES (AT NO ADDITIONAL COST TO THE OWNER) MAY BE REQUIRED BEYOND THOSE NOTED IN THE SWPPP IF SEDIMENTATION OR RUN-OFF IS OBSERVED LEAVING THE WORK AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING GRASS OR OTHER GROUND COVER TO ALL DISTURBED AREAS OF THE SITE. THIS INCLUDES ACCESS ROADS, LAY DOWN AND MATERIAL STORAGE AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL DISTURBED AREAS FOR A PERIOD OF 90 DAYS FROM FINAL PROJECT ACCEPTANCE. THE CONTRACTOR SHALL GUARANTEE THE TURF ESTABLISHMENT OF DISTURBED AREAS FOR A PERIOD OF 6 MONTHS. GROWTH AND COVERAGE SHALL BE DEFINED AS 100% COVERAGE OF ALL DISTURBED AREAS WITH A UNIFORM COVERAGE OF GRASS A MINIMUM OF 1" IN HEIGHT WITH NO BARE SPOTS EXCEEDING 2 SQUARE FEET. ADDITIONAL HYDROSEEDING APPLICATIONS MAY BE REQUIRED TO MEET COVERAGE REQUIREMENTS (NO ADDITIONAL COST TO THE OWNER).

- 4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL THE POINT THAT TURF IS ESTABLISHED TO PLAN GRADES. IF EROSION OR RILLING IS OBSERVED, CORRECTIVE MEASURES SHALL BE MADE TO THOSE AREAS.
- 5. SILT FENCING SHALL BE INSTALLED AS DETAILED. SEDIMENT SHALL BE CLEARED FROM THE FENCING OR BARRIER ONCE IT REACHES 1/3 THE HEIGHT OF THE FENCING.
- 6. CONTRACTOR SHALL ESTABLISH AND UTILIZE A RIP RAP WASH DOWN AREA ADJACENT TO ANY PUBLIC R.O.W., STREET, ALLEY, PARKING LOT OR OTHER VEHICULAR THROUGH-WAY. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD SURFACE ADJACENT TO THE PROJECT SITE FROM MUD AND DEBRIS CAUSED BY VEHICLES ENTERING THE WORK AREA. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR HIS SUB-CONTRACTORS AND TRADESMEN. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND HAULING AWAY THE RIP RAP WASH DOWN AREA PRIOR TO DEMOBILIZING.
- 7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SPACE OF 5' BETWEEN ANY CONSTRUCTION OR SILT FENCING AND ADJACENT SIDEWALK, PARKING LOT OR BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MOWING THIS AREA THROUGHOUT CONSTRUCTION.
- 8. THE CONTRACTOR SHALL USE THE STORMWATER POLLUTION PREVENTION PLAN AND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING FEES FOR TCEQ GENERAL PERMIT NO. TXR150000 RELATING TO DISCHARGES FROM CONSTRUCTION ACTIVITIES. TOTAL PROJECT AREA IS 1.0 ACRES. CONTRACTOR MUST SIGN AND POST A CONSTRUCTION SITE NOTICE (CSN) WITH SW3P INFORMATION ON OR NEAR THE SITE, ACCESSIBLE TO THE PUBLIC AND TCEQ, EPA OR OTHER INSPECTORS.
- 9. THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONSIST OF USING THE BID ITEMS SEEDING, AND SILT FENCE AS SHOWN ON THE PLANS. ONCE INSTALLED, SILT FENCE SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE ACHIEVED AT LEAST 75% VEGETATIVE COVER. CONTRACTOR SHALL PROPERLY MAINTAIN STRUCTURAL B.M.P.S THROUGHOUT THE PROJECT DURATION.

LEGEND/ABBREVIATIONS

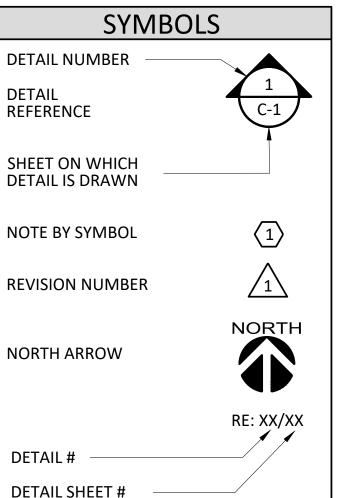
EXISTING		PROPOSED	
•	BENCHMARK		PROP. RIP-RAP
-	CONTROL POINT		PROP. ASPHALT PAVEMENT
	GPS CONTROL POINT		PROP. CONC. BOAT RAMP
	WASTEWATER MANHOLE	4	PROP. CONC. SIDEWALK
(SD)	STORM SEWER MANHOLE		PROP. COURTESY DOCK
(a)	SINGLE POST SIGN	le le le le	EXCAVATE, FILL, GRADE & SEED
	SINGLET OST SIGN	1 00	PROPOSED CONTOUR
	DOUBLE SUPPORT SIGN	SLOPE -4.76%	PROPOSED GRADE
	TRASH CAN	<u></u>	CONTROL POINTS
\odot	TREE	/	
	BOLLARDS WITH CABLE	SY	MBOLS
		DETAIL NUMBER	

NOTE:

WHERE THE WORD "PROPOSED" OR "PROP." IS UTILIZED IN THIS SET OF DOCUMENTS, IT SHALL MEAN "NEW CONSTRUCTION TO BE PERFORMED AS PART OF THIS CONTRACT."

EXISTING CONTOUR

EXISTING ELEVATION



QUANTITIES

A-1	Mobilization & Demobilization	1	LS
A-2	Construction Survey	1	LS
A-3	Quality Control	1	LS
A-4	Care of Water	1	LS
A-5	Temporary Erosion and Sediment Control	1	LS
A-6	Structure Removal, Existing Concrete Boat Ramp	1	LS
A-7	Structure Removal, Existing Rock Gabion	1	LS
A-8	Structure Removal, Existing Concrete Pavement	1	LS
A-9	Structure Removal, Existing Bollards with Cable	1	LS
A-10	Asphalt Removal Full Depth	86	SY
A-11	Relocate Existing Trash Can and Signs	1	LS
A-12	Protect Existing Concrete Pillars	1	LS
A-13	Excavation, Common	730	CY
A-14	Compacted Fill	130	CY
A-15	Flowable Fill	100	CY
A-16	Limestone Flex Base	5	CY
A-17	Geotextile	353	SY
A-18	Reinforced Concrete, Boat Ramp	58	CY
A-19	Reinforced Concrete, Courtesy Dock	45	CY
A-20	Reinforced Concrete, Sidewalk	18	CY
A-21	Asphalt	15	SY
A-22	Courtesy Dock Hardware	1	LS
A-23	Rock Riprap	150	TN
A-24	Gravel Bedding	340	SY
A-25	Topsoil (6")	80	SY
A-26	Vegetation, Seeding	80	SY
A-27	Silit Fence	250	LF

TESTING SCHEDULE

DESCRIPTION	MINIMUM RATE	EST. QUANTITY
SOILS:		
STANDARD PROCTOR - TRENCH BACKFILL	PER MATERIAL SOURCE	1
STANDARD PROCTOR - SUBGRADE	PER PARKING AREA	1
DENSITIES - TRENCH BACKFILL	PER 200 LF TRENCH/LIFT	-
DENSITIES - SUBGRADE (STREET)	PER 200 LF LANE/LIFT	-
DENSITIES - SUBGRADE (DRIVEWAYS) DENSITIES - SUBGRADE (SIDEWALKS)	PER 2 DRIVEWAYS PER 5000 SF	- 1
FLEXIBLE BASE:		
SIEVE ANALYSIS	PER 3000 CY	1
ATTERBURG LIMITS	PER 3000 CY	1
MODIFIED PROCTOR	PER 3000 CY	1
L.A. ABRASION	PER 3000 CY	1
CBR (STANDARD)	PER MATERIAL SOURCE	-
WET BALL MILL TEST	PER MATERIAL SOURCE	-
TRIAXIAL TEST	PER MATERIAL SOURCE	-
HOT-MIX ASPHALT CONCRETE (HMAC):		
EXTRACTION, SIEVE ANALYSIS	PER 500 TONS OR DAY	1
LAB DENSITY & STABILITY	PER 500 TONS OR DAY	1
THEORETICAL DENSITY (RICE METHOD)	PER 500 TONS OR DAY	1
TEMPERATURE - DURING LAY-DOWN	CONTINUOUS AS NEEDED	1
THICKNESS - IN PLACE (CORE)	PER 1000 LF STREET	-
% AIR VOIDS - IN PLACE (CORE)	PER 1000 LF STREET	-
% THEORETICAL DENSITY - IN PLACE (CORE)	PER 1000 LF STREET	-
CONCRETE:		
CURB & GUTTER	PER 500 LF C&G	-
SIDEWALKS AND BOAT RAMP	PER 4000 SF	2
DOCKS	DAILY FOR EACH PLACEMENT	1
	BETWEEN 5 AND 25 CY AND ONE ADDITIONAL FOR EACH	
	ADDITIONAL 50 CY	
RIGID PAVEMENT (ADD/ALT.):		
COMPRESSION STRENGTH (7 & 28 DAY)	PER 2500 SY OR DAY	-
FLEXURAL (BEAM) STRENGTH (7 & 28 DAY)	PER 2500 SY OR DAY	-
AIR CONTENT	PER 2500 SY OR DAY	-
SLUMP	PER 2500 SY OR DAY	_

NOTE:

- 1. THE ABOVE TESTING RATES ARE ONLY ANTICIPATED GUIDELINES, THE ENGINEER RESERVES THE RIGHT TO CONDUCT ADDITIONAL TESTING AT THE ENGINEER'S DISCRETION. RE-TEST FOR FAILURES ARE NOT INCLUDED.
- 3. IN THE EVENT OF FAILURES, ADDITIONAL TESTS WILL BE REQUIRED. 4. CONTRACTOR TO COORDINATE ALL TESTING OF CONSTRUCTION MATERIALS WITH TPWD'S SELECTED TESTING FIRM.

MOISTURE CONTENTS TO BE INCLUDED WITH DENSITY TEST.







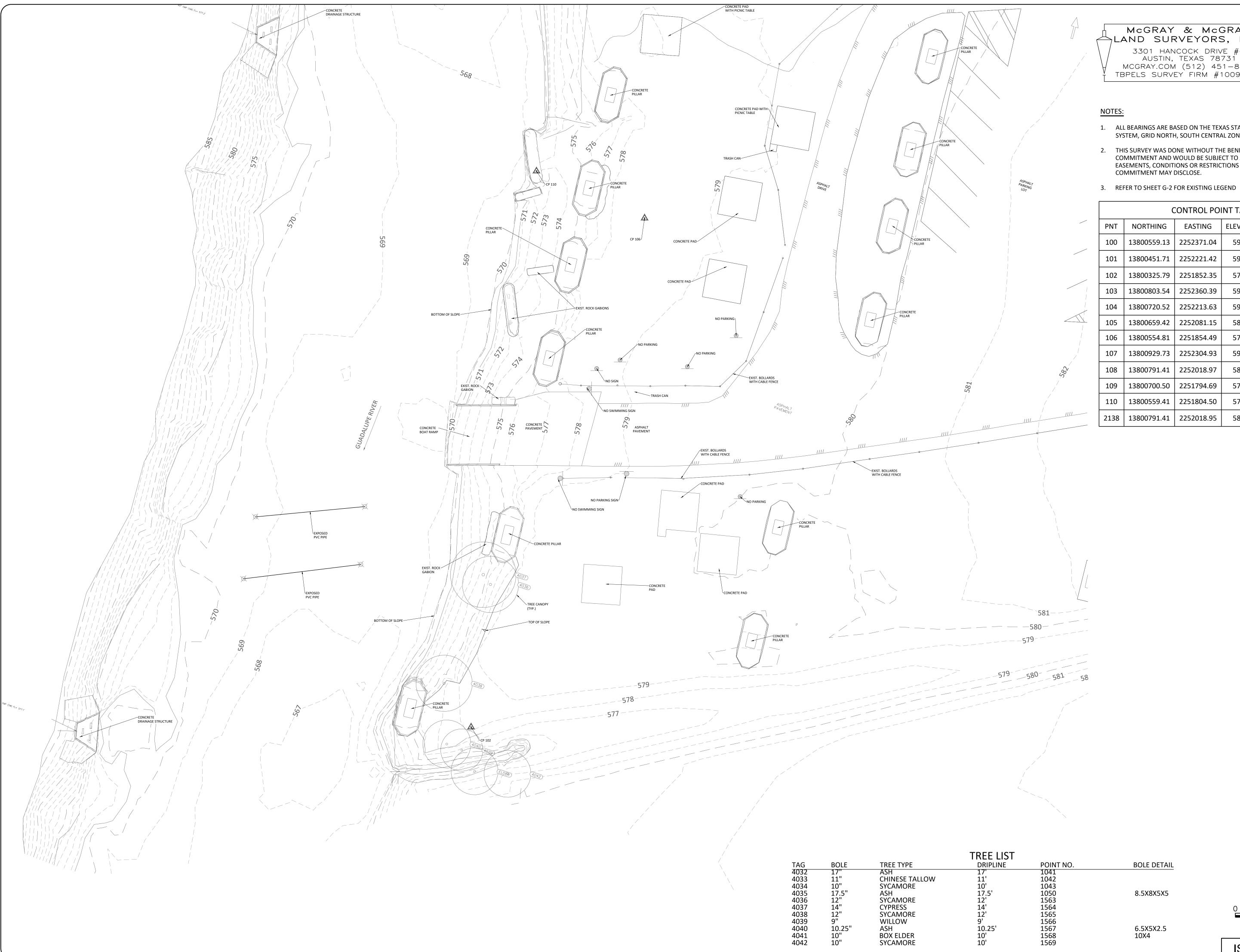
MEN RE \Box 5 3

DATE: MARCH 2025 **DESIGNED BY:** HGO DRAWN BY: DKS **REVIEWED BY:** NAC **REVISED: REVISED: REVISED:**

FNI PROJECT NO.: TPW24561

> SHEET TITLE QUANTITIES, **LEGEND & NOTES**

SHEET NUMBER



McGRAY & McGRAY LAND SURVEYORS, INC.

3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
MCGRAY.COM (512) 451-8591
TBPELS SURVEY FIRM #10095500

- 1. ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, GRID NORTH, SOUTH CENTRAL ZONE, (4204), NAD83.
- 2. THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND WOULD BE SUBJECT TO ANY AND ALL EASEMENTS, CONDITIONS OR RESTRICTIONS THAT A CURRENT TITLE

	(CONTROL PO	INT TABLE	
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	13800559.13	2252371.04	598.05	GPS+IRSC1/2
101	13800451.71	2252221.42	590.86	GPS+IRSC1/2
102	13800325.79	2251852.35	578.31	TPT+ IRSC 1/2
103	13800803.54	2252360.39	598.96	TPT+ SPIN
104	13800720.52	2252213.63	590.48	TPT+ IRSC 1/2
105	13800659.42	2252081.15	583.15	TPT+ MAG WASH
106	13800554.81	2251854.49	578.76	TPT+ SPIN
107	13800929.73	2252304.93	599.94	TPT+ IRSC 1/2
108	13800791.41	2252018.97	581.95	TPT+ IRSC1/2
109	13800700.50	2251794.69	578.76	TPT+ SPIN
110	13800559.41	2251804.50	574.42	TPT+ IRF 5/8
2138	13800791.41	2252018.95	581.92	TPT+ IRSC1/2
	1	•		







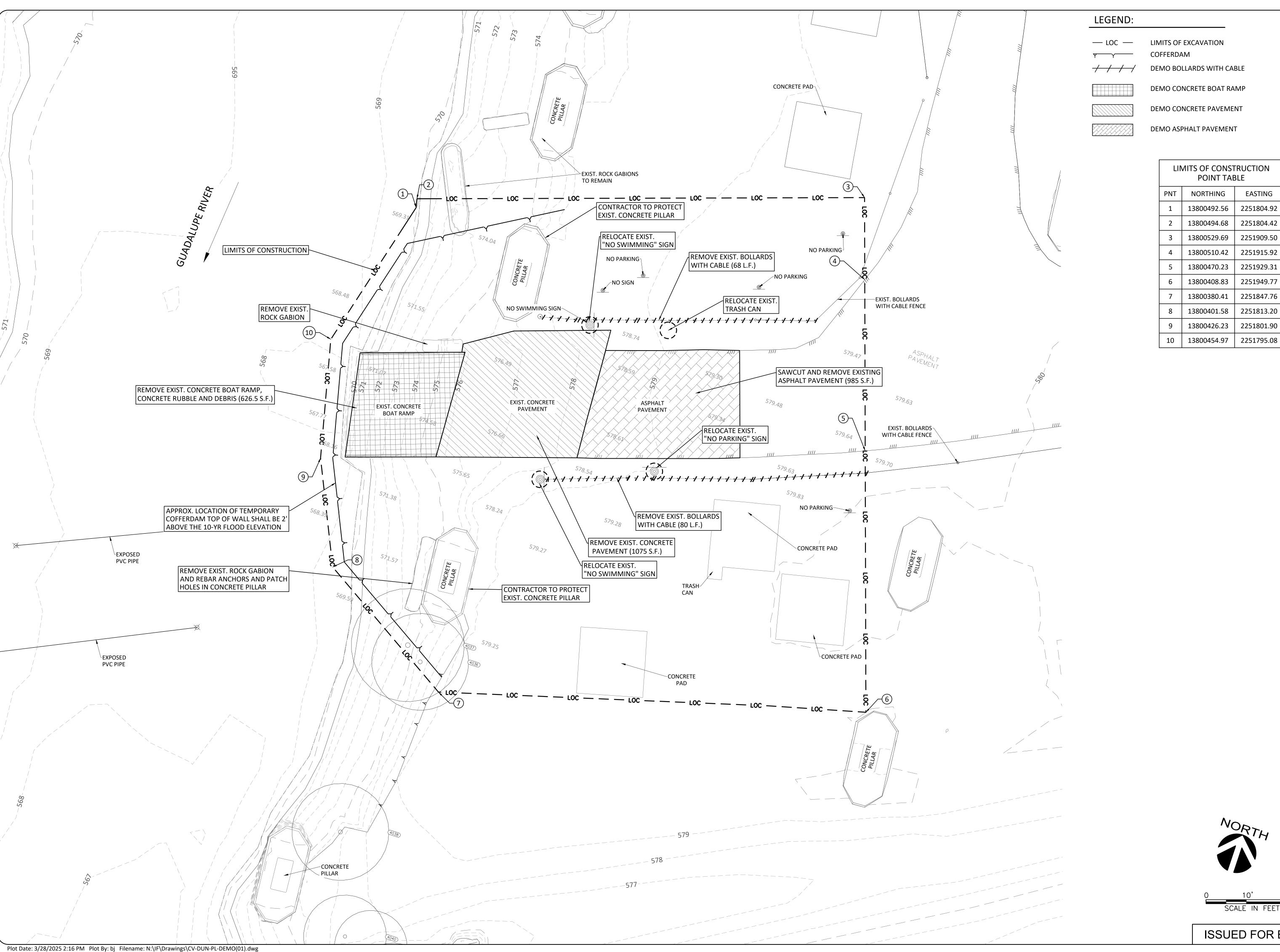


DATE: MARCH 2025
DESIGNED BY: SRT
DRAWN BY: DKS
REVIEWED BY: HGO
REVISED:

FNI PROJECT NO.: TPW24561

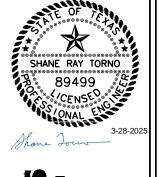
SHEET TITLE EXISTING CONDITIONS

SHEET NUMBER









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DATE: MARCH 2025 DESIGNED BY: SRT DRAWN BY: DKS REVIEWED BY: HGO **REVISED:**

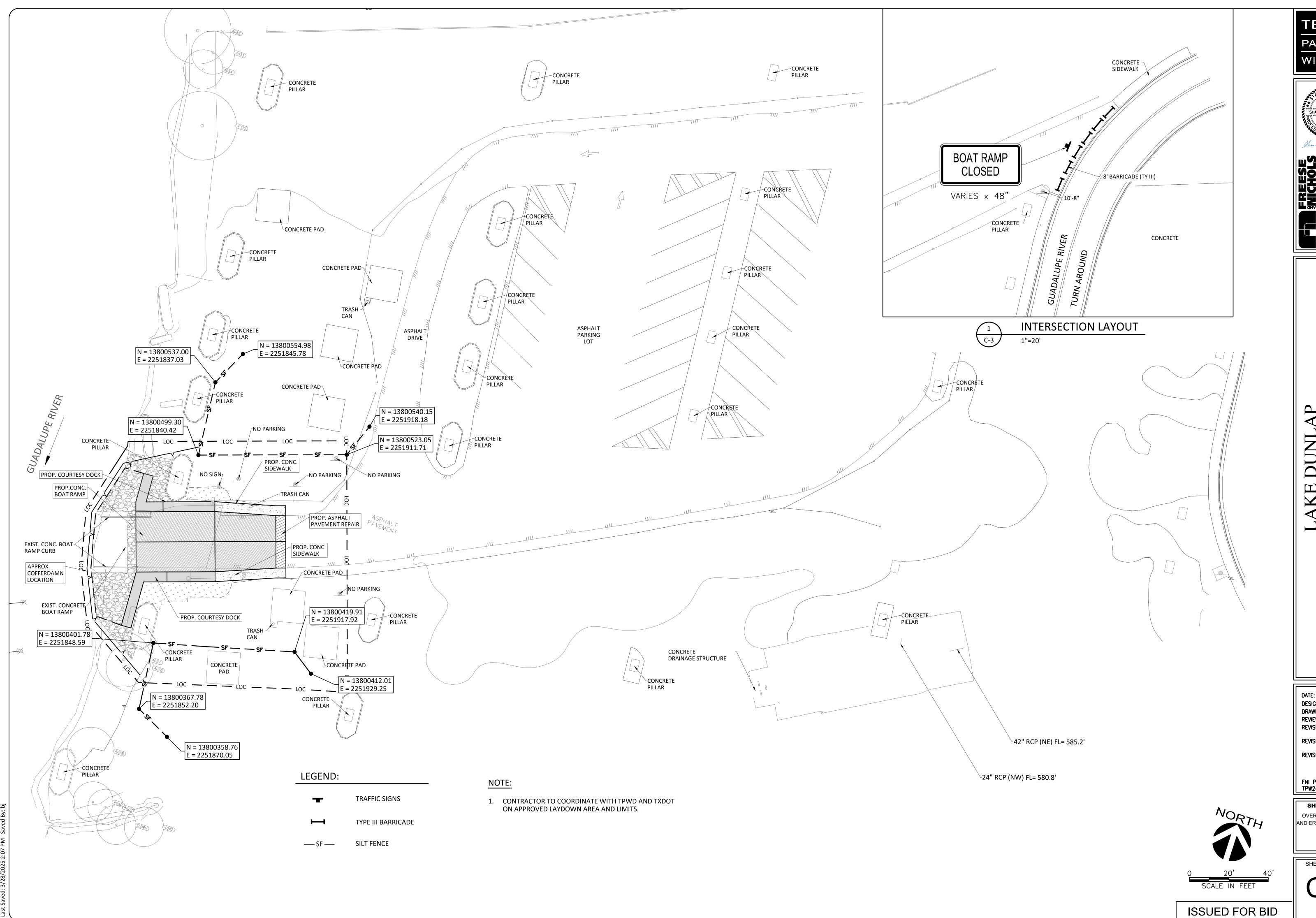
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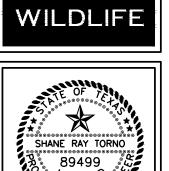
TPW24561

SHEET TITLE DEMOLITION PLAN

SHEET NUMBER



PARKS &







CEMENT BOAT I-35

DATE: MARCH 2025 DESIGNED BY: SRT DRAWN BY: DKS REVIEWED BY: HGO **REVISED: REVISED:**

REVISED:

FNI PROJECT NO.: TPW24561

SHEET TITLE OVERALL SITE PLAN AND EROSION CONTROL

SHEET NUMBER

BOAT

I-35

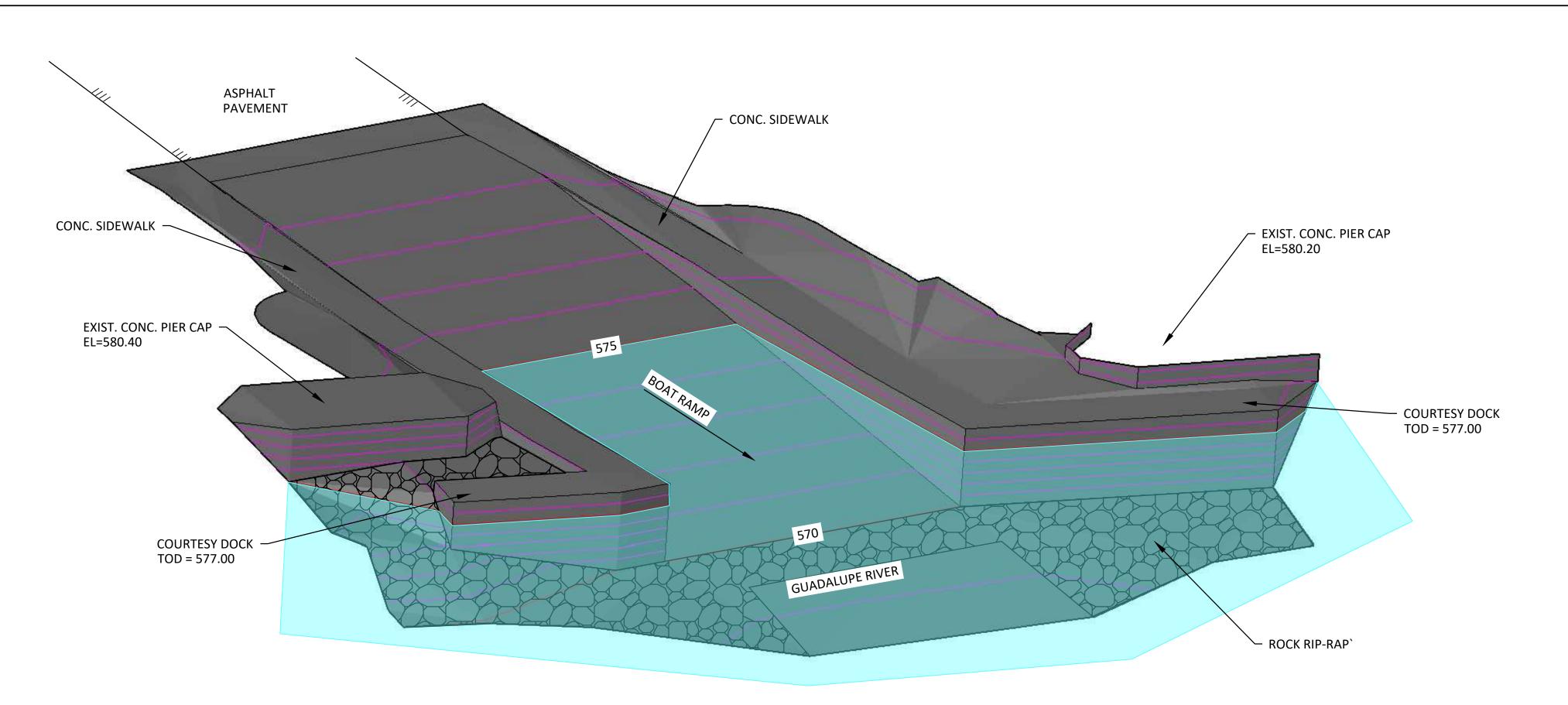
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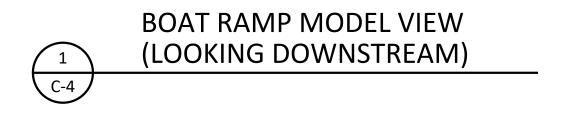
FNI PROJECT NO.: TPW24561 SHEET TITLE **BOAT RAMP**

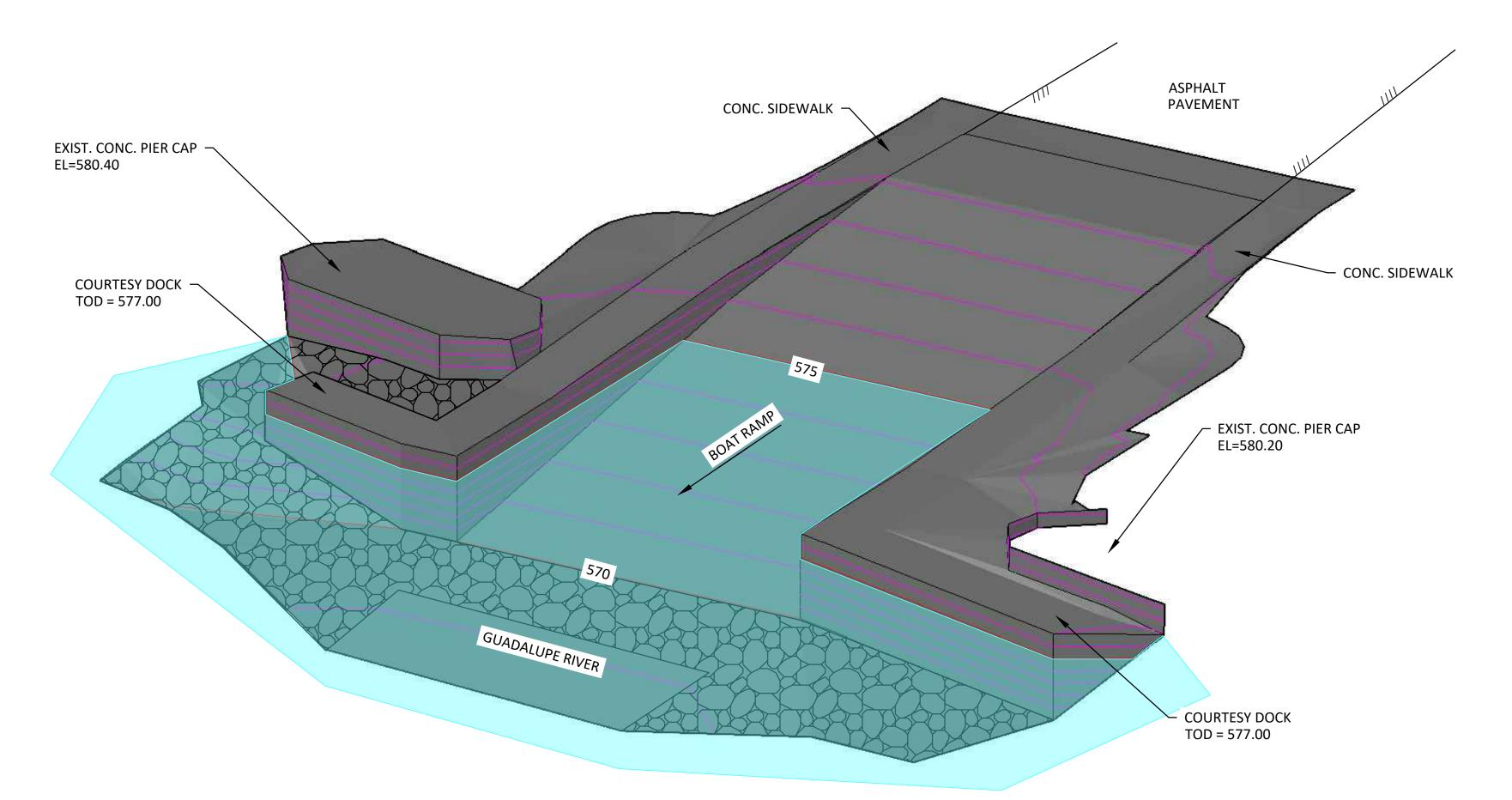
MODEL VIEWS

SHEET NUMBER



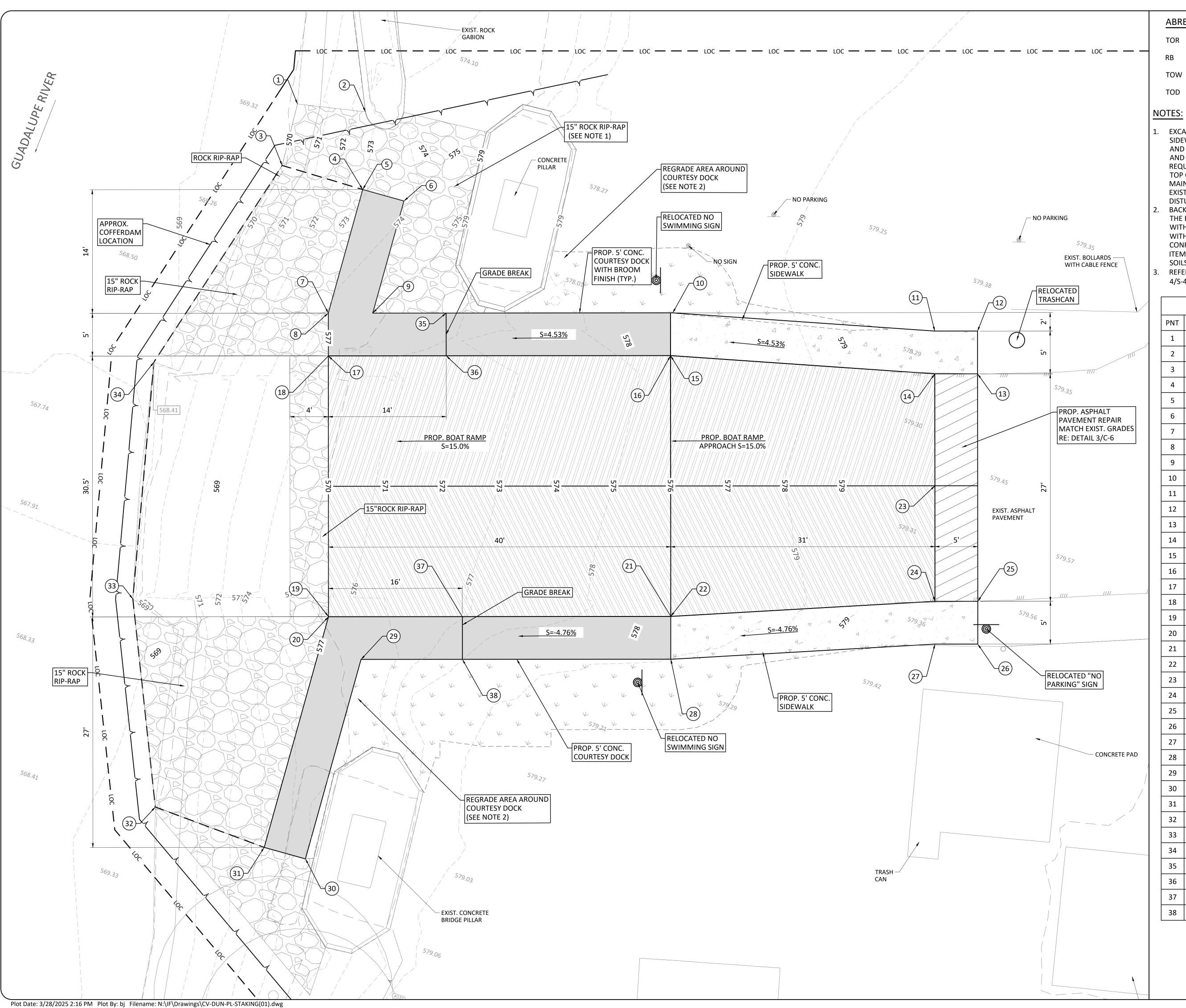












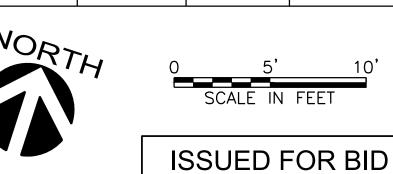
ABREVITAIONS:

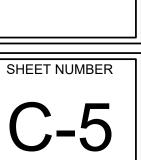
TOP OF RAMP **RIVER BOTTOM** TOP OF WALK

TOP OF DOCK

- EXCAVATE EXISTING SOILS TO 6" BELOW THE PROPOSED TOP OF SIDEWALK. REMOVE AND DISPOSE OF ANY CONCRETE RUBBLE AND CONSTRUCTION DEBRIS. BACKFILL WITH CLEAN TOPSOIL AND ROLL WITH SUITABLE CONSTRUCTION EQUIPMENT AS REQUIRED FOR INITIAL STABILITY. TOPSOIL SHALL MATCH THE TOP OF PROPOSED SIDEWALK CROWNING IN THE CENTER TO MAINTAIN POSITIVE DRAINAGE 2% MIN, 4% MAX. MATCH EXISTING GRADES AND INSTALL BERMUDA SEEDING ON ALL DISTURBED AREAS.
- BACKFILL FOR ENTIRE VOLUME OF EXCAVATION ADJACENT TO THE BRIDGE COLUMNS SHALL BE EXCAVATABLE FLOWABLE FILL WITH A MINIMUM THICKNESS OF 12" AND SHALL BE PLACED TO WITHIN 6" OF THE FINAL FINISHED GRADE. (FLOWABLE FILL TO CONFORM TO TXDOT REQUIREMENTS SHOWN ON TABLE 2 OF ITEM 401). BACKFILL THE REMAINING 6" WITH CLEAN NATIVE SOILS TO MATCH EXISTING.
- REFER TO 1/S-4 FOR CONTROL JOINT (CJ) DETAILS AND REFER TO 4/S-4 FOR CONSTRUCTION JOINT (CXJ) DETAILS.

POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	13800488.87	2251806.61	570.10	RB
2	13800490.50	2251814.43	573.00	RB
3	13800481.48	2251807.19	569.89	RB
4	13800481.78	2251817.00	570.00	RB
5	13800481.78	2251817.01	577.00	TOD
6	13800482.04	2251822.01	577.10	TOD
7	13800466.80	2251817.76	577.00	TOD
8	13800466.80	2251817.75	570.00	RB
9	13800468.44	2251822.69	577.10	TOD
10	13800479.56	2251855.95	578.30	TOD
11	13800487.23	2251885.68	579.44	TOW
12	13800488.81	2251890.42	579.44	TOW
13	13800484.07	2251892.01	579.34	TOW
14	13800482.48	2251887.26	579.34	TOR
15	13800474.74	2251857.28	578.20	TOD
16	13800474.73	2251857.29	576.00	TOR
17	13800462.06	2251819.35	577.00	TOD
18	13800462.05	2251819.35	570.00	TOR
19	13800433.14	2251829.01	570.00	TOR
20	13800433.13	2251829.02	577.00	TOD
21	13800445.82	2251866.95	576.00	TOR
22	13800445.81	2251866.95	578.16	TOD
23	13800470.07	2251891.42	579.34	TOR
24	13800457.25	2251895.70	579.34	TOR
25	13800458.84	2251900.44	579.45	TOW
26	13800454.10	2251902.03	579.55	TOW
27	13800452.51	2251897.28	579.55	TOW
28	13800441.07	2251868.54	578.26	TOD
29	13800429.59	2251834.21	577.10	TOD
30	13800405.41	2251835.41	577.10	TOD
31	13800405.16	2251830.41	570.00	RB
32	13800405.62	2251816.85	569.96	RB
33	13800427.86	2251806.66	568.37	RB
34	13800454.91	2251800.24	568.41	RB
35	13800471.17	2251830.83	577.10	TOD
36	13800466.43	2251832.41	577.00	TOD
37	13800438.09	2251843.85	577.10	TOD
38	13800433.35	2251845.44	577.10	TOD





TEXAS

PARKS &

WILDLIFE

SHANE RAY TORNO

89499

EMENT

BOAT

-35

DATE: MARCH 2025

DESIGNED BY: SRT DRAWN BY: DKS

REVIEWED BY: HGO

FNI PROJECT NO.:

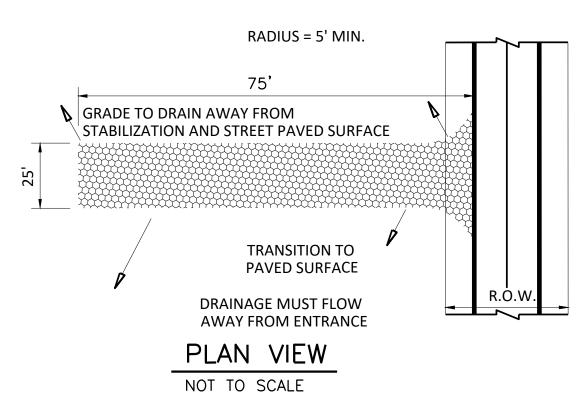
SHEET TITLE STAKING AND GRADING PLAN

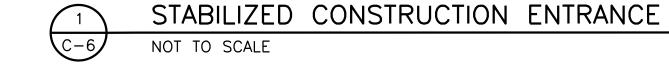
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TPW24561





STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- 1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
- 2. CONTRACTOR TO COORDINATE WITH TPWD ON LOCATION AND REQUIREMENTS ON STABILIZED CONSTRUCTION ENTRANCE.
- 3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
- 4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING CITY APPROVED METHODS.
- 6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

– WATER LEVEL

EL. = 575.00

7.06%

-BOTTOM OF EXIST.

BOAT RAMP EL. = 570.53 TOP OF NEW DOCK -

EL. = 577.00

7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

- STEEL FENCE POST MAX. 6' SPACING, MIN. EMBEDMENT = 1' SILT FENCE (MIN. HEIGHT 24" ABOVE EXIST. GROUND) WIRE MESH BACKING SUPPORT 4x4-W1.4xW1.4 COMPACTED EARTH MINIMUM ALLOWABLE, TYP. OR ROCK BACKFILL CHAIN LINK FENCE FABRIC IS ACCEPTABLE FLOW FABRIC TOE-IN TRENCH ISOMETRIC PLAN VIEW NOT TO SCALE

SILT FENCE GENERAL NOTES:

- 1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- 3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- 5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 1/3 THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

TOP OF EXIST.

BOAT RAMP

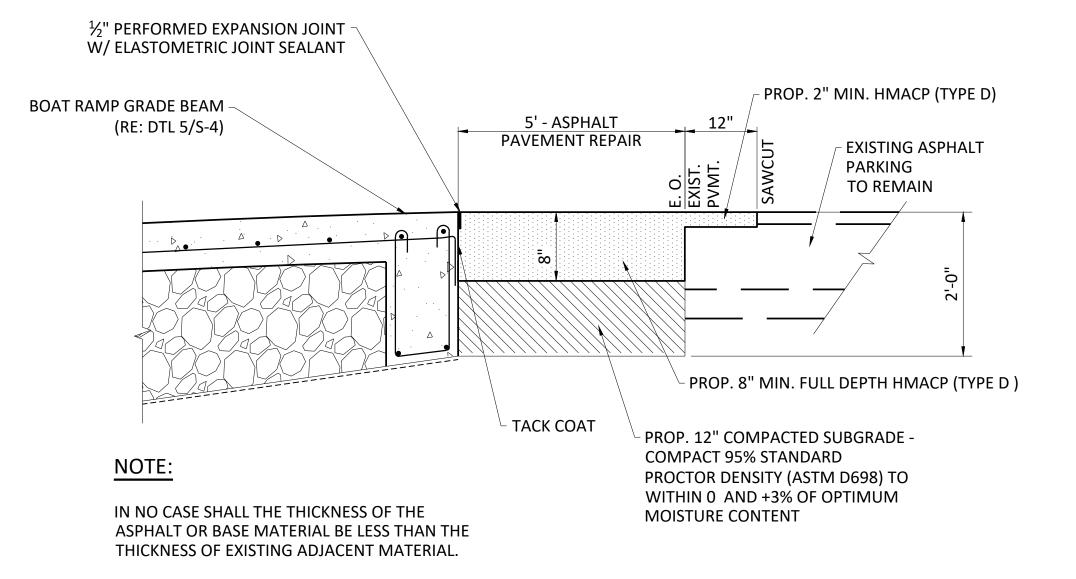
EL. = 575.93

BOTTOM OF NEW BOAT RAMP

BOAT RAMP PROFILE

EL. = 570.00

0+50



TEXAS

PARKS &

WILDLIFE

89499

EMEN.

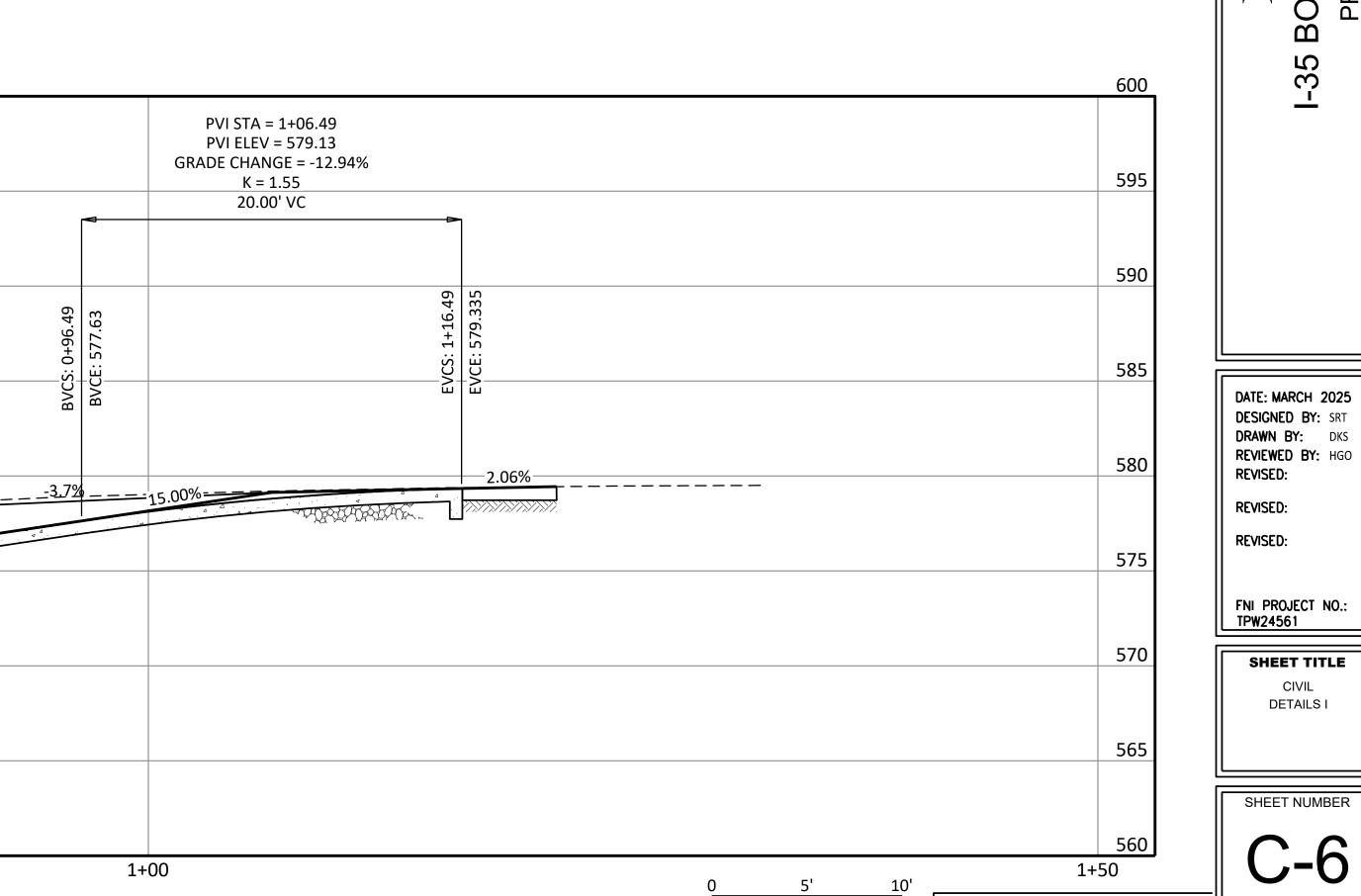
 \Box

-35

ISSUED FOR BID

SCALE IN FEET





595

590

585

580

575

570

560

GENERAL

- 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE, INCLUDING LOCAL SUPPLEMENTS, EXCEPT WHERE APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
- 2. DESIGN IS IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE, LOCAL AMENDMENTS, AND APPLICABLE CODE REFERENCED STANDARDS.
- 3. PRIOR TO FABRICATION OR CONSTRUCTION:
 - A. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA.
 - B. REVIEW OTHER DISCIPLINE DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA, WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
 - C. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES.
 - D. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN DISCIPLINES, CONSTRUCTABILITY ISSUES, OR EXISTING CONDITIONS.
- 4. REMOVE ALL ABANDONED FOUNDATIONS, UTILITIES, PIPELINES, ETCETERA THAT INTERFERE WITH NEW CONSTRUCTION.
- 5. PROVIDE EXCAVATION SHORING TO PROTECT AND SUPPORT FOUNDATION SOILS UNDER EXISTING STRUCTURES.
- 6. THE STRUCTURE IS DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.
- 7. PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
- 8. THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

FOUNDATION

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT "LAKE DUNLAP IH-35 EXIST. 188 BOAT RAMP REPLACEMENT GEOTECHNICAL INVESTIGATION REPORT; GEOTECHNICAL DATA SUMMARY", DATED NOVEMBER 2024, PREPARED BY FREESE AND NICHOLS, INC.
- 2. EXCAVATION DESIGN AND SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY SLOPES SHOWN ARE A MAXIMUM AND SHALL BE DECREASED AS REQUIRED FOR SAFETY OR TO MEET OSHA REQUIREMENTS.
- 3. EXCAVATION AND SUBGRADE PREPARATION
- A. REMOVE THE SURFICIAL VEGETATION, WASTE AND LOOSE SOILS TO A MINIMUM DEPTH OF 12 INCHES.
- B. EXCAVATE THE SITE TO THE PROPOSED FINISHED SUBGRADE WHERE CUTTING TO SUBGRADE IS REQUIRED. EXTEND THE LATERAL LIMITS OF THE EXCAVATION 2'-0" BEYOND THE PERIMETER OF THE FOUNDATION.
- C. ALL BACKFILL MATERIAL SHALL CONSIST OF MATERIALS WHICH ARE CONSIST OF MATERIAL WHICH ARE CLASSIFIED AS SP, SM, SC, CL, OR DUAL CLASSIFICATIONS THEREOF, WHICH HAVE A LIQUID LIMIT LESS THAN OR EQUAL TO 35 AND A PLASTICITY INDEX OF A MINIMUM OF 4 AND A MAXIMUM OF 15, WHICH ARE FREE OF ORGANIC MATERIALS.
- D. BACKFILL SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS FOR HEAVY EQUIPMENT AND 4" LOOSE LIFTS FOR HAND-DIRECTED EQUIPMENT. COMPACT TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR), AND AT A MOISTURE CONTENT WITH -2% TO 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698. IN-PLACE FIELD DENSITY TESTS SHALL BE CONDUCTED AT A RATE OF ONE TEST PER 3,000 SQUARE FEET FOR EVERY LIFT.
- 4. STRUCTURAL FILL SHALL BE COMPACTED SOIL BEHIND THE WALLS. COMPACT TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR)' AND A MOISTURE CONTENT WITH -2% TO 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
- 5. ALL BELOW GRADE FOUNDATION ELEMENTS ARE DESIGNED WITH FORMED SIDES. IF THE CONTRACTOR ELECTS TO USE EARTH FORMED SIDES, THE EXPOSED SURFACE AND 12 INCHES BELOW GRADE SHALL BE FORMED TO THE DESIGN DIMENSION AND ONE INCH SHALL BE ADDED TO EACH SIDE TO PROVIDE ADEQUATE COVER OVER THE REINFORCING AT THE CONTRACTOR'S EXPENSE. ALL CONCRETE EXPOSED TO VIEW IN THE FINAL CONDITION. AND 12 INCHES BELOW GRADE SHALL BE FORMED.
- 6. ALLOWABLE NET BEARING PRESSURES USED FOR FOUNDATION DESIGNS IS 500 PSF.
- 7. PLACEMENT OF WORK PLATFORM SHALL BE WITHIN 24 HOURS OF FINAL EXCAVATION.
- 8. WHERE CLAYEY OR SANDY SUBGRADE IS SATURATED:
- A. EXCAVATE AS REQUIRED TO WITHIN 3 FEET OF FINAL SUBGRADE SURFACE.
- B. NO EQUIPMENT TRAFFIC IS PERMITTED ON GROUND SURFACE WITHIN 3 FEET OF FINAL SUBGRADE. DO NOT CUT OR REMOLD FINAL SUBGRADE SURFACE.
- C. PERFORM FINAL EXCAVATION WITH SMOOTH EDGE BUCKET.
- D. HAND PLACE GEOTEXTILE TO CREATE A SMOOTH, WRINKLE FREE INSTALLATION. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- E. PLACEMENT OF SPECIFIED, COMPACTED CRUSHED STONE ON GEOTEXTILE SHALL BE COMPLETED PRIOR TO OPERATING EQUIPMENT OVER GEOTEXTILE. A MINIMUM OF 12" FOR LIGHT EQUIPMENT, 18" FOR HEAVY EQUIPMENT.

CONCRETE

- 1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS NOTED OTHERWISE, SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI SP-66), LATEST EDITION.
- 2. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND CONCRETE MIX DESIGN AS FOLLOWS:
- A. CEMENT: PORTLAND CEMENT, ASTM C 150, TYPE I/II, EQUIVALENT ALKALIES < 0.60%
- B. W/C RATIO: 0.4 MAXIMUM
- C. AGGREGATE: ASTM C 33, 1" MAXIMUM, CLASS 3M
- D. ENTRAINED AIR: ACI 318-14, EXPOSURE CLASS C2
- E. SLUMP: 3" (+/-1")
- F. MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT IN CONCRETE BY WEIGHT OF CEMENT: 0.15
- 4. ALL REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60, DEFORMED.

- 5. CONCRETE CLEAR COVER OVER REINFORCING SHALL BE AS LISTED BELOW, UNLESS NOTED OTHERWISE.
 A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - B. ALL OTHER: 2"
- C. SEE DRAWINGS FOR EXCEPTIONS
- 6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE FORMS OR TOOLED TO 3/4" RADIUS ON SLABS UNLESS NOTED OTHERWISE.
- 7. ALL CONSTRUCTION JOINTS (CXJ) SHALL BE THOROUGHLY CLEANED AND PURPOSELY ROUGHENED TO 1/4" PRIOR TO PLACING ADJACENT CONCRETE.
- 8. ADDITIONAL CONSTRUCTION JOINTS SHALL HAVE PRIOR APPROVAL OF THE ENGINEER.
- 9. PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 10. IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO THE LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING, TEMPORARY BRACING AND SHORING.
- 12. UNLESS NOTED OTHERWISE, HOOKS SHOWN ON DRAWINGS SHALL BE ASSUMED TO BE STANDARD HOOKS PER ACI 318.
- 13. UNLESS NOTED OTHERWISE, LAP SPLICES IN BEAMS AND WALLS SHALL BE STAGGERED.
- 14. ALL REINFORCING SHALL BE CONTINUOUS. CONTINUOUS BARS SHALL LAP 48 BAR DIAMETERS OF SMALLER BAR, LAPPED, UNLESS NOTED OTHERWISE. ALL REBAR EMBEDMENT LENGTHS SHALL BE 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS (EXPANSION OR ADHESIVE)

- 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), BUT NOT LESS THAN THAT INDICATED BELOW.
- 2. INSTRUCTIONS BELOW ARE NOT INTENDED TO CONFLICT WITH APPLICABLE SAFETY OR OSHA REGULATIONS OR TO RELIEVE CONTRACTOR OF COMPLIANCE WITH ALL APPLICABLE SAFETY AND OSHA REGULATIONS. IN CASE OF CONFLICT WITH SAFETY OR OSHA REGULATIONS, CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
- 3. ADHESIVE ANCHORS SHALL ONLY BE INSTALLED BY CONSTRUCTION PERSONNEL CERTIFIED UNDER ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL. SUBMIT CERTIFICATIONS AS RECORD DATA PRIOR TO ANCHOR INSTALLATION.
- 4. ANCHOR DIAMETER AND EMBEDMENT SHALL BE AS INDICATED.
- 5. HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WITH ANSI MATCHED TOLERANCE CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH DIAMETER RECOMMENDED BY MANUFACTURER. DRILL HOLES USING HILTI SAFESET TECHNOLOGY OR APPROVED EQUAL.
- 6. USE CARE AND CAUTION WHEN INSTALLING TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING STEEL. FIELD VERIFY EXISTING REINFORCING LOCATIONS PRIOR TO FABRICATION OR CONSTRUCTION, AND THEN COORDINATE REBAR LOCATIONS WITH SHOP DRAWINGS.
- 7. ADHESIVE ANCHORS SHALL BE DEFORMED REINFORCING BARS (ASTM A615, GR 60) OR STAINLESS STEEL 316, UNLESS NOTED OTHERWISE, AND AS NOTED BELOW:
- A. ADHESIVE SHALL BE HILTI HIT-RE 500 V3 OR AN APPROVED EQUAL. SUBMIT PUBLISHED COMPARISONS BETWEEN EACH SPECIFIED AND EACH ALTERNATE ANCHOR.
- B. PRIOR TO INSTALLATION: ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE, OR OTHER RESIDUE, IN ACCORDANCE WITH MPII.
- C. VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.
- D. INSTALL ADHESIVE STARTING AT BACK OF HOLE. AS REQUIRED BY MPII, USE MANUFACTURER SUPPLIED
- PISTON PLUG INJECTION SYSTEM FOR ALL HORIZONTAL AND VERTICALLY INCLINED HOLES.
- E. INSTALL ANCHOR BY SIMULTANEOUSLY TWISTING AND INSERTING INTO HOLE.
- F. ALLOW ANCHOR TO SET REQUIRED TIME. DO NOT DISTURB.
- G. TIGHTEN NUT. DO NOT OVER-TORQUE.H. MINIMUM CONCRETE AGE AT TIME OF INSTALLATION: 28 DAYS
- I. CONCRETE TEMPERATURE RANGE AT TIME OF INSTALLATION SHALL BE: 41DEG F TO 104DEG F.
- J. CONCRETE MOISTURE CONDITION AT TIME OF INSTALLATION: DRY.





FREESE §NICHOLS 800 N. Shoreline Blvd., Suite 1600N Corpus Christi, Texas 78401-3700 Phone - (361) 561-6500 Web - www.freese.com Freese and Nichols, Inc.

> LAKE DUNLAP I-35 BOAT RAMP REPLACEMENT

DATE: MARCH 2025
DESIGNED BY: SRT
DRAWN BY: DKS
REVIEWED BY: HGO
REVISED:

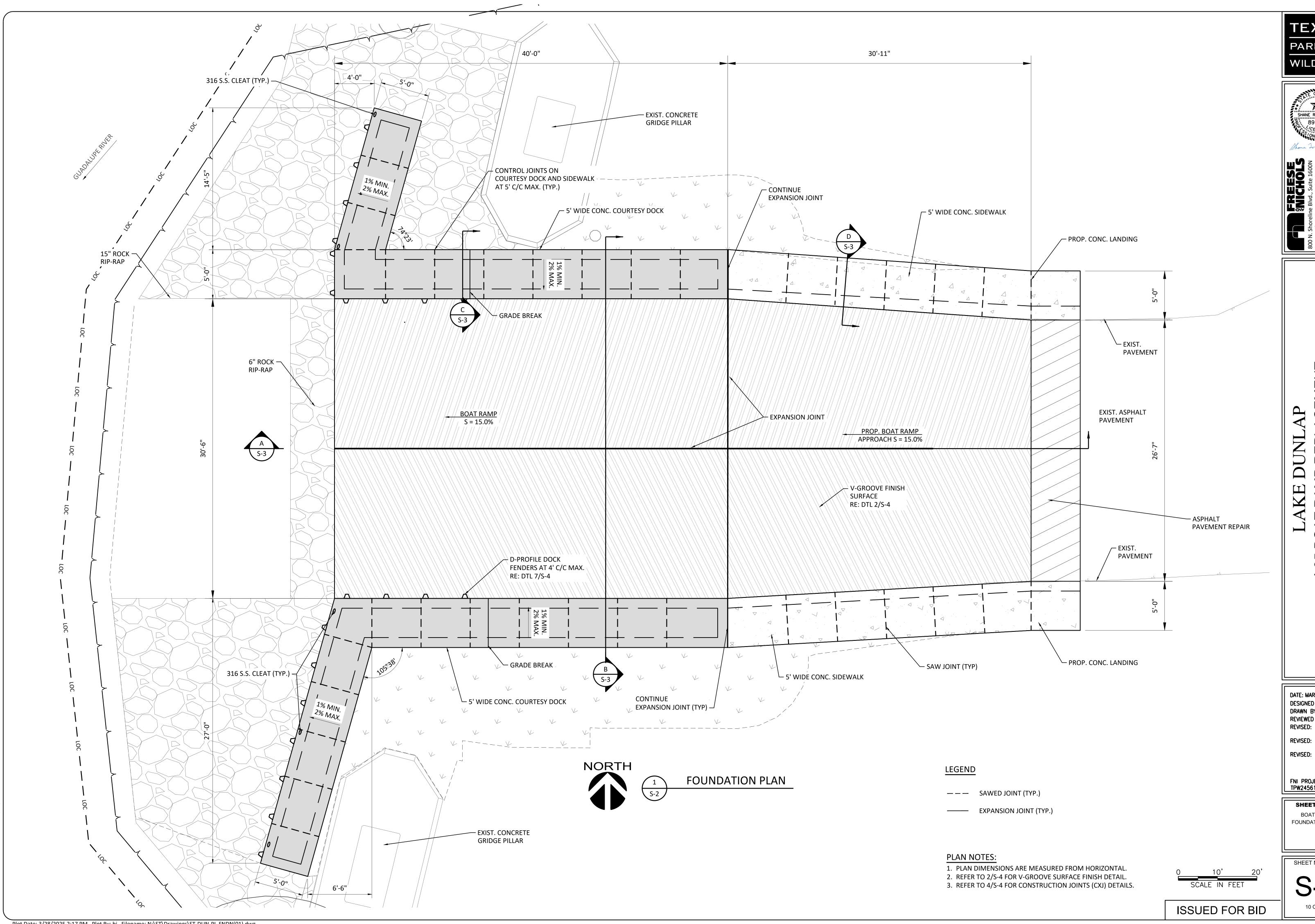
REVISED:

FNI PROJECT NO.: TPW24561

> SHEET TITLE STRUCTURAL GENERAL NOTES

SHEET NUMBER

S-1



PARKS & WILDLIFE



EMENT

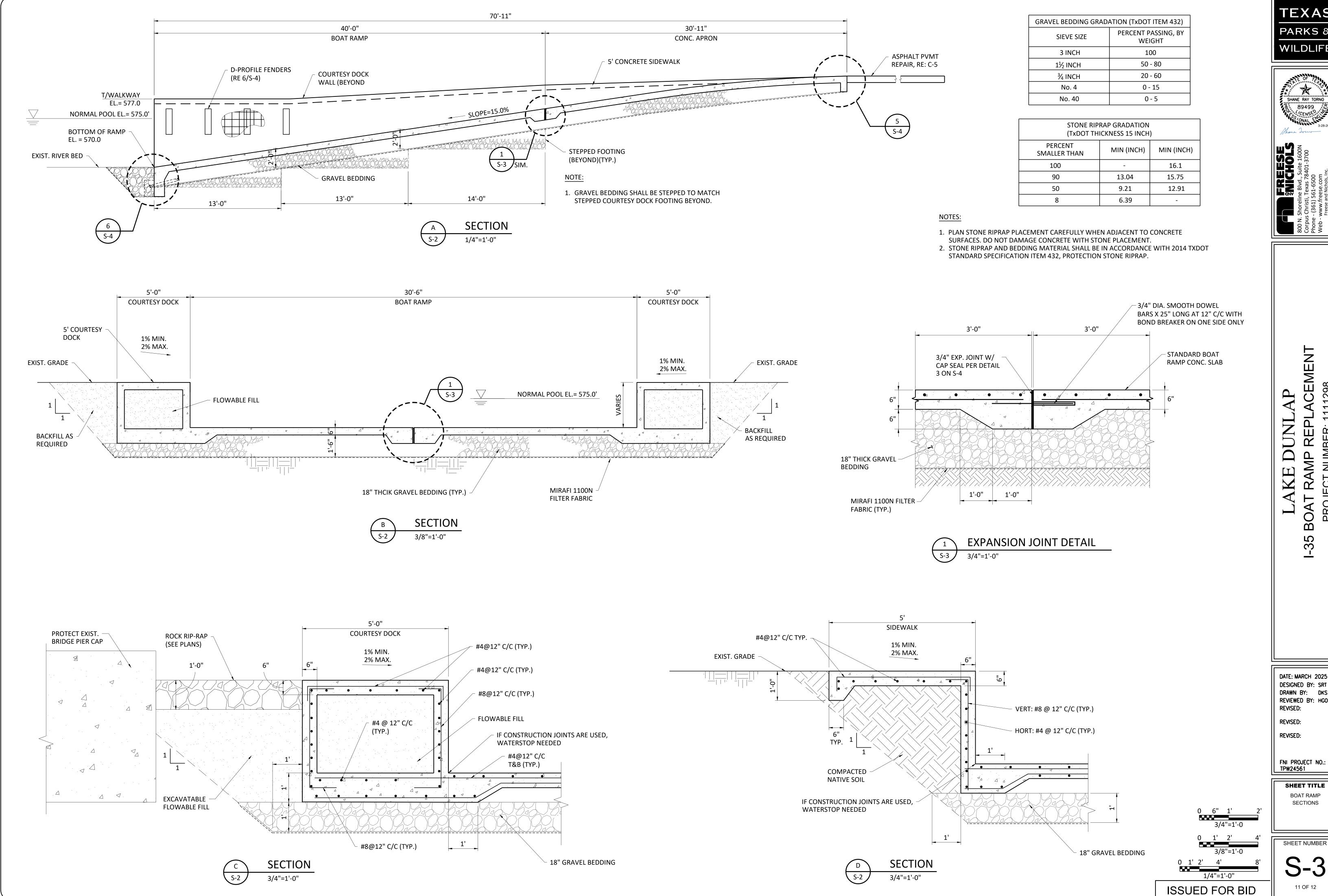
BOAT I-35

DATE: MARCH 2025 DESIGNED BY: SRT DRAWN BY: DKS REVIEWED BY: HGO

FNI PROJECT NO.: TPW24561

SHEET TITLE BOAT RAMP FOUNDATION PLAN

SHEET NUMBER



TEXAS PARKS & **WILDLIFE**



DATE: MARCH 2025 DESIGNED BY: SRT DRAWN BY: DKS REVIEWED BY: HGO

SHEET TITLE SECTIONS

SHEET NUMBER

Plot Date: 3/28/2025 2:17 PM Plot By: bj Filename: N:\ST\Drawings\ST-DUN-SC-RAMP01.dwg

SAW CUT NOTE:

TYPICAL FOR SLABS W/ONE MAT

OF REINFORCING - FOR TWO MATS

VERT JOINT IN WALL W/WATERSTOP

OF REINFORCING USE DETAIL FOR

1 1/2"

VERTICAL IN WALLS

1. USE CONVENTIONAL SAW TO CUT JOINTS AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATES FROM BEING DISLODGED BY THE SAW.

BAR SPLICE

4 /

LENGTH

BAR SPLICE



NOTES:

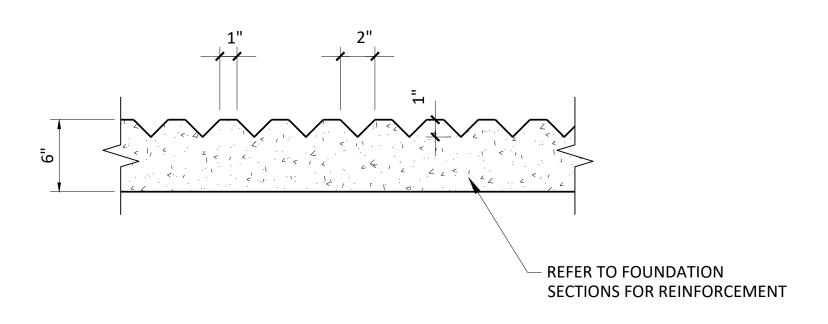
THIS FACE EXPOSED TO

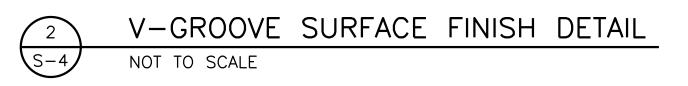
BAR SPLICE LENGTH

HORIZONTAL IN SLABS

WEATHER, EARTH OR WATER

- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE A 5'x5' MINIMUM TEST SECTION OF THE PAVEMENT FINISH FOR TPWD REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF THE BOAT RAMP PAVEMENT.
- V-GROOVE FINISH SHALL BE AT 60° ANGLE FROM CENTER LINE OF BOAT RAMP.





-DRY SIDE

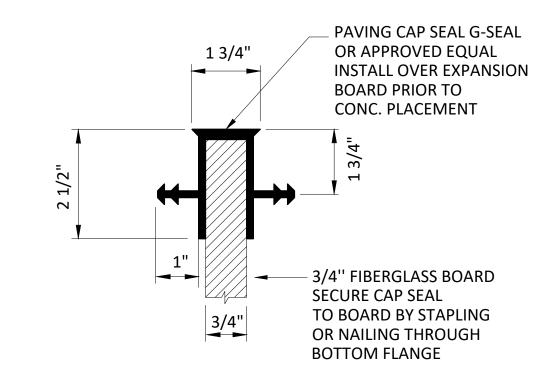
 $\mathsf{WALL}-$

T/3 T/3 T/3

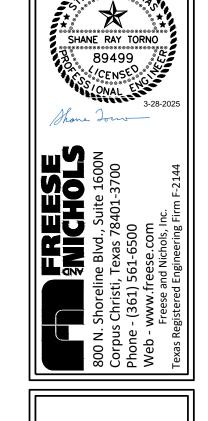
HORIZONTAL IN WALLS

(NO STARTER WALLS)

SLAB OR FOOTING







TEXAS

PARKS &

WILDLIFE

EMEN. BOA -35

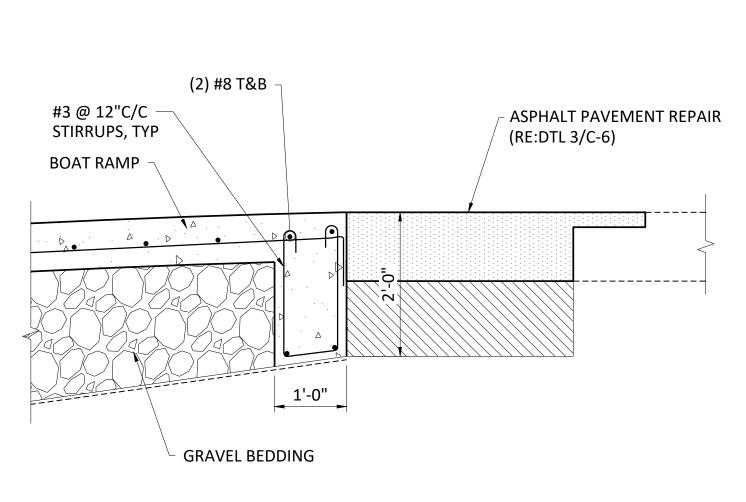


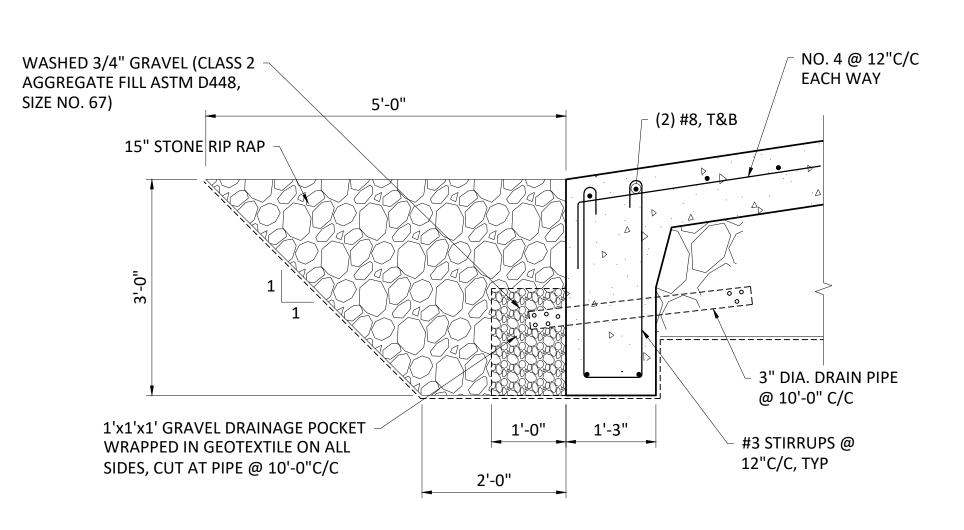
1 1/2"

-ALTERNATE REINFORCING SPLICES EACH

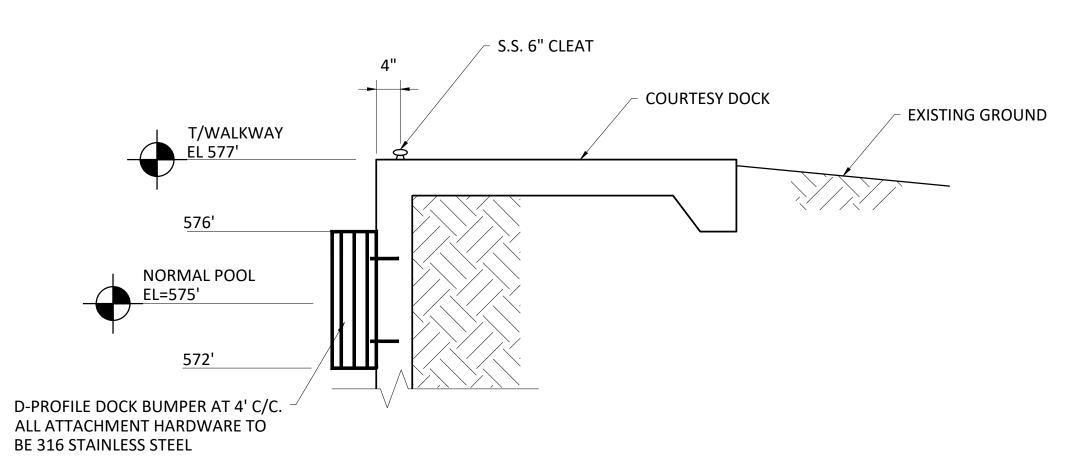
٤ WALL

FACE (TYPICAL ALL CONSTRUCTION JOINTS)

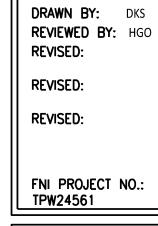












DATE: MARCH 2025

DESIGNED BY: SRT

SHEET TITLE STRUCTURAL DETAILS I

SHEET NUMBER 12 OF 12

Plot Date: 3/28/2025 2:37 PM Plot By: bj Filename: N:\IF\Drawings\CV-DUN-PL-DETAIL.dwg

ISSUED FOR BID

HEEL GRADE BEAM DETAIL